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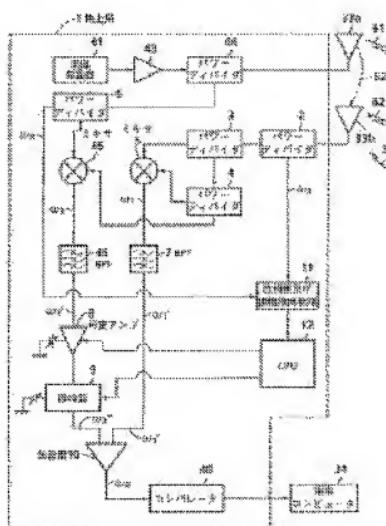
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Abstract of JP 5290226 (A)

PURPOSE: To secure normal communication regardless of the position of a traveling object in a non-contact IC card device which recognizes the traveling object by obtaining information concerning the traveling object by radio-communicating between a non-contact IC card provided for the traveling object and a ground station.

CONSTITUTION: The receiver of the ground station is provided with power dividers 2 to 4 detecting a wave in the same phase, a mixer 5 and a mixer 45 detecting a wave separately from the mixer 5. The receiver is also provided with a phase difference/amplitude detection circuit 11, a controller (CPU) 12, a variable amplifier 8 and a shifter 9 so as to automatically control the phase and the amplitude of detection output. Besides, the receiver is provided with an adder 10 adding the detection outputs of two systems. Thus, when the adder 10 adds two signals, the influence of phase change based on the position of the traveling object is cancelled and the signals are normally demodulated.



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